

Work Order ID 105167

105167

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July-25-13 7:47:05 AM

Item ID: D412-702-025

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Shoulder Harness 4 Point Attachment 4 Man Aft

Start Date: 7/25/13 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 8/01/13 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
N/A	Rev E								
100	DOCUMENT CONTROL	0.00							
100									
DC	Memo	0.00							
Document Control	Photocopy bluefile and create labels per PPP D412-702-025 CHG002								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

13-08-06 JB

2

3

Work Order ID 105167

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Item ID: D412-702-025

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N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Shoulder Harness 4 Point Attachment 4 Man Aft

Start Date: 7/25/13 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 8/01/13 Req'd Qty: 1.00 *1*

Customer:

Reference:

Run Start *NR1*

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop *NR2*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-702-025 Location: <u>048</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

1 3/8/8 SD

MCS 13-08-12

Cpl 13.8.8

Picklist Print

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Page 1

Work Order ID: 105167

Parent Item: D412-702-025

Parent Item Name: Shoulder Harness 4 Point Attachment 4 Man Aft

Start Date: 7/25/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: A05.09.01 New issue KJ/JLM

IPP Rev: B As per Dsi9351 07-03-14 JLM

IPP Rev: C 07-07-28 As per Rev E JLM Verified By: ec IPP Rev: D 11.05.31 dsi

9559 EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN4-20A

Bolt

Sh

Purchased

No

Location

GA
116419
ST516
m126193
ST517
121060
124215

Loc Qty

51
51
300
300
220
8
212

Loc Code

120

Each

571.0000

8

8

70

70

AN4-5A

BOLT

Sh

Purchased

No

Location

ST355
120562
ST514
120562

Loc Qty

147
147
157
157

Loc Code

120

Each

304.0000

4

4

70

70

AN960JD416

Washer

Sh

NAS1149D0463J

Purchased

No

D3198-1

Fitting

Sh

Manufactured

No

Location

ST246A
102445

Loc Qty

17
17

Loc Code

120

Each

0.0000

20

20

70

70

4

4

70

13-08-06

102445

Picklist Print

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Page 2

Work Order ID: 105167

Parent Item: D412-702-025

Parent Item Name: Shoulder Harness 4 Point Attachment 4 Man Aft

Start Date: 7/25/13

Required Date: 8/01/13

Start Qty: 1.00

Required Qty: 1.00

D3551-112

Hook and Loop Tie

Manufactured No

120 Each 7.0000

4 105238 JB

Location

Loc Qty

Loc Code

ST246A

7

102344

7

Manufactured No

Each 8.0000

4 4 JB

Location

Loc Qty

Loc Code

ST265

8

102027

8

Purchased No

120 Each 6,852.0000

102027 12 12 13-08-06

Location

Loc Qty

Loc Code

FP001

50

122452

38

8182

12

ST314

10

m125708

10

ST506

11

121444

11

st507

325

116507

18

125535

47

m126073

260

ST509

4000

m126275

4000

ST510a

2250

m126333

2250

ST518

206

124231

206

126333

D4387-043

Harness Assembly

MS21042L4

Locknut

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Shop Packet Print

Page 2

QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11.1	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

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DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS
REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		CHG 002 and subsequent
	D412-702-027		CHG 002 and subsequent
	D412-702-029		CHG 002 and subsequent
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent

Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNESS CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

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July-25-13 7:47:05 AM

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Pg

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Revision ID:

Stop

***NS2**

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Required Date: 8/01/13

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Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

***NR1**

QC:

Date:

SPC (Y/N):

Date:

Stop

***NR2**Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stam

Draw Nbr

Revision Nbr

N/A

Rev E

JB

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-702-025 CHG002

ML5-13-08-07

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

